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## Document Number 1

Entry 1 of 3

File: DWPI

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TITLE: Welding power supply circuitry - has waveform shaping circuit for rectifier input current so current waveform can assume sinusoidal shape

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### PRIORITY-DATA:

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### PATENT-FAMILY:

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IT 1271351 B	May 27, 1997	N/A	000	B23K000/00
DE 4211906 C1	June 9, 1993	N/A	003	B23K009/10
FR 2689795 A1	October 15, 1993	N/A	000	B23K009/10

### APPLICATION-DATA:

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IT 1271351B	March 30, 1993	1993IT-MI00615	N/A
DE 4211906C1	April 9, 1992	1992DE-4211906	N/A
FR 2689795A1	March 19, 1993	1993FR-0003214	N/A

INT-CL (IPC): B23K 0/00; B23K 9/10; H02M 5/45

ABSTRACTED-PUB-NO: DE 4211906C

### BASIC-ABSTRACT:

Welding equipment circuitry includes a mains voltage supplied reactifier (1) and an intermediate capacitive circuit (2) for supplying a current transformer (12) having a primary side, which is cycled by semiconductor switches (3a,b), and a secondary side which is connected to the welding process (13a,b) by a network including a rectifier diode (5), a smoothing choke (7) and a free-wheeling diode (6), the intermediate circuit voltage being stabilised by a voltage regulator (10,11).

The target value emitter (14) of the regulator (10,11) has a shaping circuit so that the current waveform can assume a sinusoidal shape at the input of the rectifier (1).

ADVANTAGE - The circuitry allows problem-free use of the welding equipment even with low power mains, avoids current peaks and is suitable for d-i-y use.

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ABSTRACTED-PUB-NO: DE 4211906C

### EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.1/1